

CONDUCTIVE LEAK DETECTION CUSHION FOR GEOMEMBRANES

BIDIM® C CONDUCTIVE NON-WOVEN GEOTEXTILE

TECHNICAL DATA SHEET

Bidim® C is the world's first commercial conductive non-woven geotextile designed to enable precise leak detection surveys through Arc testing, identifying holes and defects as small as 0.2mm. It provides an effective and economical solution for designers and installers of geomembrane lining systems and potable water storage facilities.

- Strong three-dimensional structure with high elongation, providing excellent filtration and acting as a cushion to the subgrade
- Easy installation with no heavy machinery, equipment, or special skills required
- Durability with a high melting point and high UV resistance due to Bidim polyester properties
- Applicable for Waste, Mining and Water sectors



BIDIM C - TYPICAL VALUES

	STANDARD	UNITS	DIRECTION	A19C	A34C	A64C
Pre-Coating						
Wide Strip Tensile Strength	AS 3706.2	kN/m	MD	14.0	21.5	42.0
			XMD	14.0	21.0	42.0
Wide Strip Toughness	AS 3706.2	kJ/m ²	MD	3.2	5.2	12.3
			XMD	3.7	5.7	12.6
Grab Tensile Strength	AS 3706.2	N	MD	920	1,430	3,010
			XMD	920	1,430	3,010
Trapezoidal Tear Strength	AS 3706.3	N	MD	370	540	1,030
			XMD	370	540	1,030
CBR Burst Strength	AS 3706.4	N	-	2,400	3,700	6,950
Post-Coating						
Interface Friction Angle (δ)*	ASTM D5321	o	Smooth HDPE	13 - 15		
			Textured HDPE	27 - 29		
Surface Resistivity ‡	ASTM D4496	Ω/sq	-	<10,000		
Flow Rate @ 100mm Head	AS 3706.9	l/m ² /s	-	170	105	55

*: Interface friction analysis was carried out in a large-scale direct shear box with both interfaces completely submerged and loaded for 15 minutes prior to shearing. A load between 10-500kPa was used at a test speed of 1mm/min. The reported friction angles were determined from a best-fit linear regression line drawn through the test data across the noted load. Caution should be exercised in using these values for applications involving normal stresses outside the of the stresses covered by the test series or in isolation of site specific conditions and geotechnical investigations. Results may vary across different loads, geosynthetic material types and testing facilities. These values should always be verified by actual interface friction analysis using project-specific materials/conditions.

‡: A lower surface resistivity value indicates higher conductivity

The data and specifications contained in this table are obtained from the manufacturer's laboratory testing. To ensure this information is current please contact your local branch of Geofabrics Australasia.

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